

WHOI-89-43

Bibliography of Technical Reports 1988

Compiled by

Susan S. Putnam



Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543

October 1989

Reproduction in whole or in part is permitted for any purpose of the
United States Government. This report should be cited as:
Woods Hole Oceanog. Institution Technical Report WHOI-89-43.

Approved for publication; distribution unlimited.

Approved for Distribution:

A handwritten signature in dark ink, appearing to read 'R.B. Gagosian', is written over a horizontal line.

Dr. Robert B. Gagosian
Associate Director for Research

The technical reports prepared by the Woods Hole Oceanographic Institution in 1988 are listed in this bibliography. Inquiries about availability of extra copies will be handled on an individual basis. Initial distribution of the reports is controlled by the funding agencies. Reports are available through the:

National Technical Information Service
NTIS Order Desk
5285 Port Royal Road
Springfield, VA 22161

NTIS order numbers are included with each report listed or can be obtained through the Document Library.

The Document Library provides Interlibrary Loan service for all Institution reports and will assist with problems of identification.

When citing a report, it should be referenced as:
Woods Hole Oceanographic Institution Technical Report WHOI-88-No.

All reports listed are UNCLASSIFIED and approved for public release unless otherwise noted.

Document Library - Clark 141
Woods Hole Oceanographic Institution
Woods Hole, MA 02543

Technical Reports - 1988

WHOI

- 88- 1 **Putnam, Susan S.**
Bibliography of technical reports 1987. Apr 1988. 14p. NTIS
NO. PB88-201 942/AS.

WHOI

- 88- 2 **Watkins, William A., James E. Bird, Karen E. Moore and Peter Tyack.**
Reference database marine mammal literature. Jan 1988. 82p.
NTIS NO. PB89-204 549/AS.

WHOI

- 88- 3 **Kaminski, Michael A.**
Cenozoic deep-water agglutinated foraminifera in the North
Atlantic. Ph.D. Thesis. MIT/WHOI Joint Program in
Oceanography and Oceanographic Engineering. Dec 1987. 262p.
NTIS NO. PB89-198 121/AS.

WHOI

- 88- 4 **Goud, Margaret Redding.**
Prediction of continental shelf sediment transport using a
theoretical model of the wave-current boundary layer. Ph.D.
Thesis. MIT/WHOI Joint Program in Oceanography and
Oceanographic Engineering. Aug 1987. 211p. NTIS NO. AD-A192
272.

WHOI

- 88- 5 **Brigham, Lawson W. and Ellen M. Gately.**
The Soviet Maritime Arctic. Proceedings of a workshop held
May 10-13, 1987 by the Marine Policy Center of the Woods Hole
Oceanographic Institution, Woods Hole, Massachusetts 02543
USA. Jan 1988. 67p. NTIS NO. PB89-200 877/AS.

WHOI

- 88- 6 **Kite-Powell, Hauke.**
A broad-scale profile of the marine advanced technology
industry. Mar 1988. 80p. NTIS NO. PB88-210588.

WHOI

- 88- 7 **Stalcup, M. C., T. M. Joyce, J. L. Bullister, R. L. Barbour
and J. A. Dunworth.**
Hydrographic data from R/V ENDEAVOR Cruise #143. Mar 1988.
118p. NTIS NO. PB89-204 382/AS.

WHOI

- 88- 8 **Casso, Susan A., William R. Clarke, Hugh D. Livingston,
Julianne M. Palmieri and Lolita D. Suprenant.**
Cesium and strontium isotopes in the northwestern north
Atlantic and Arctic Ocean, 1981 - 1985. Apr 1988. 47p. NTIS
NO. PB89-203 913/AS.

WHOI

- 88- 9 Ponte, Rui Vasques de Melo.**
Observations and modelling of deep equatorial currents in the Central Pacific. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jan 1988. 184p. NTIS NO. PB89-198 139/AS.

WHOI

- 88-10 Wacogne, Sophie.**
Dynamics of the equatorial undercurrent and its termination. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jan 1988. 365p. NTIS NO. PB89-198 147/AS.

WHOI

- 88-11 Wengrovitz, Michael S.**
The Hilbert-Hankel transform and its application to shallow water ocean acoustics. Sc.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jan 1986. 483p.

WHOI

- 88-12 Merab, Andre A.**
Exact reconstruction of ocean bottom velocity profiles from monochromatic scattering data. Sc.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jan 1987. 204p.

WHOI

- 88-13 Tziperman, Eli.**
Mixing and general circulation dynamics: Theory and observations. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Feb 1987. 165p. NTIS NO. PB89-198 063/AS.

WHOI

- 88-14 Tricca, Alice I.**
Abstracts of papers submitted in 1987 for publication. Apr 1988. 92p. NTIS NO. PB88-246 913/AS.

WHOI

- 88-15 Briscoe, M., E. Denton, D. Frye, M. Hunt, E. Montgomery and R. Payne.**
Surface-wave data acquisition and dissemination by VHF packet radio and computer networking. Apr 1988. 113p. NTIS NO. AD-A197 547.

WHOI

- 88-16 Malkus, William V. R. and Mary Evans Berry.**
Summer Study Program in Geophysical Fluid Dynamics. Order and disorder in planetary dynamos. May 1988. 164p. NTIS NO. AD-A196 554.

WHOI

88-17

Catipovic, Josko A.

Design and performance analysis of a digital acoustic telemetry system. Sc.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. May 1988. 268p.

WHOI

88-18

Willey, Joanne M.

Characterization of swimming motility in a marine unicellular cyanobacterium. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Apr 1988. 162p. NTIS NO. PB89-198 071/AS.

WHOI

88-19

Casey, Kevin D.

A modal/WKB inversion method for determining sound speed profiles in the ocean and ocean bottom. O.E. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jun 1988. 103p.

WHOI

88-20

Dean, Jerome P. and Robert C. Beardsley.

A Vector - Averaging Wind Recorder (VAWR) system for surface meteorological measurements in CODE (Coastal Ocean Dynamics Experiment). May 1988. 74p. NTIS NO. PB89-203 921/AS.

WHOI

88-21

Little, Sarah A.

Fluid flow and sound generation at hydrothermal vent fields. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Apr 1988. 152p.

WHOI

88-22

Hering, Janet G.

The kinetics and thermodynamics of copper complexation in aquatic systems. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jun 1988. 308p.

WHOI

88-23

Speer, Kevin G.

The influence of geothermal sources on deep ocean temperature, salinity, and flow fields. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jun 1988. 146p. NTIS NO. PB89-198 089/AS.

WHOI

88-24

Diebel, Carol E.

The sensory mediation of symbiosis between hyperiid amphipods and salps. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jun 1988. 192p. NTIS NO. PB89-198 725/AS.

WHOI

88-25

Jemsek, John P.

Heat flow and tectonics of the Ligurian Sea Basin and margins. Ph. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jun 1988. 488p. NTIS NO. PB89-198 154/AS.

WHOI

88-26

Benoit, Gaboury.

The biogeochemistry of ^{210}Pb and ^{210}Po in fresh waters and sediments. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jun 1988. 304p. NTIS NO. PB89-198 097/AS.

WHOI

88-27

Ebinger, Cynthia J.

Thermal and mechanical development of the East African Rift system. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jul 1988. 180p. NTIS NO. PB89-203 632/AS.

WHOI

88-28

Jasper, John P.

An organic geochemical approach to problems of glacial-interglacial climatic variability. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Jul 1988. 312p. NTIS NO. PB89-198 162/AS.

WHOI

88-29

Segal, Mordechai and Ehud Weinstein.

Time delay estimation in stationary and non-stationary environments. Jul 1988. 75p.

WHOI

88-30

Kinder, Thomas H. and Harry L. Bryden.

Gibraltar Experiment: Summary of the field program and initial results of the Gibraltar Experiment. Aug 1988. 121p. NTIS NO. AD-A199 445/8/WOT.

WHOI

88-31

Ball, L. A. and F. L. Sayles.

The release and migration of activation products of corrosion-resistant metal specimens in marine sediments. Aug 1988. 37p. NTIS NO. PB88-251 186.

WHOI

88-32

Berteaux, H., A. Bocconcelli, M. Gould and S. Kery.

Testing and evaluation of SURLYN foam and SPECTRA fiber ropes for buoy systems applications. Aug 1988. 31p. NTIS NO. AD-A199 882/XAB.

WHOI

88-33

Jaffe, Jules S.

Underwater imaging system performance characterization. Aug 1988. 52p. NTIS NO. AD-A199 529/9/WOT.

WHOI

88-34

Gray, Elisabeth S.

Sexual patterns of monooxygenase function in the liver of marine teleosts and the regulation of activity by estradiol. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Aug 1988. 154p. NTIS NO. PB89-198 170/AS.

WHOI

88-35

Honjo, S., B. J. Hay, Oya Algan, Vernon Asper, Huseyin Benli, Tayfun Bilgic, James Broda, Walter Dean, Egon T. Degans, Alan Gagnon, Bonnie L. Woodward and A. Sami Derman.

Temporal and spatial variability in sedimentation in the Black Sea: Cruise Report R/V KNORR 134-8, Black Sea Leg 1, April 16-May 7, 1988. Oct 1988. 167p. NTIS NO. PB89-204 366/AS.

WHOI

88-36

Lawrence, Wendy B.

Measurements of a barotropic planetary vorticity mode in an eddy-resolving quasi-geostrophic model using acoustic tomography. S.M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Aug 1988. 30p. NTIS NO. AD-A205 409.

WHOI

88-37

Rowe, Elizabeth Anne.

Improvement of three dimensional acoustic field estimation using tomographic reconstructions of the ocean. S.M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Aug 1988. 55p. NTIS NO. AD-A207 664.

WHOI

88-38

Nicholson, John W.

Registration and variability of side scan sonar imagery. O.E. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Aug 1988. 102p. NTIS NO. AD-A201 895.

WHOI

88-39

Vaughn, Gregory M.

Hybrid state estimators for the control of remotely operated underwater vehicles. O.E. Thesis and S. M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Sep 1988. 118p.

WHOI

88-40

Campbell, Jeffrey W.

Evaluation of GEOSAT data and application to variability of the northeast Pacific Ocean. S.M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Oct 1988. 167p.

WHOI

- 88-41 Knapp, George P.**
Hydrographic data from RV ENDEAVOR Cruise 129. Sep 1988.
111p. NTIS NO. PB89-204 556/AS.

WHOI

- 88-42 Joyce, T. M., J. A. Dunworth, D. M. Schubert, M. C. Stalcup and R. L. Barbour.**
Application of acoustic-doppler current profiler and expandable bathythermograph measurements to the study of the velocity structure and transport of the Gulf Stream. Sep 1988. 27p. NTIS NO. N88-28605/9/XAB.

WHOI

- 88-43 Zemanovic, M., P. Richardson, J. Valdes, J. Price and L. Armi.**
SOFAR float Mediterranean Outflow Experiment data from the second year, 1985 - 1986. Sep 1988. 238p. NTIS NO. PB89-204 606/AS.

WHOI

- 88-44 Holderied, Kristine.**
Comparison study of SEASAT scatterometer and conventional wind fields. S.M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Oct 1988. 221p.

WHOI

- 88-45 Freise, Clarke B.**
A comparison of cross-stream velocities and Gulf Stream translations utilizing in-situ and remotely-sensed data. S.M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Oct 1988. 48p.

WHOI

- 88-46 Vennell, M. Ross.**
The influence of a steady baroclinic deep ocean on the shelf. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Oct 1986. 202p. NTIS NO. PB89-198 188/AS.

WHOI

- 88-47 Wilkin, John L.**
Scattering of coastal-trapped waves by irregularities in coastline and topography. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Oct 1988. 124p. NTIS NO. PB89-198 105/AS.

WHOI

- 88-48 Polvani, Lorenzo M.**
Geostrophic vortex dynamics. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Oct 1988. 225p.

WHOI

- 88-49 Vengayil, Padmaraj.**
Similarity relations of wind waves in finite depth. S.M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Nov 1988. 95p. NTIS NO. PB89-198 113/AS.

WHOI

- 88-50 Choi, Joon Won.**
The effects of algal density on growth of heterotrophic microflagellates. S.M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Nov 1988. 79p. NTIS NO. PB89-198 196/AS.

WHOI

- 88-51 Bennett, Sara L.**
Where three oceans meet: The Agulhas Retroflexion region. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Oct 1988. 371p. NTIS NO. AD-A204 684.

WHOI

- 88-52 Montgomery, Ellyn T.**
Richardson Number (RiNo) float operations during the Patch Experiment (PATCHEX), and data summary. Nov 1988. 28p. NTIS NO. AD-A205 343.

WHOI

- 88-53 Hennet, Remy J-C. and Jean K. Whelan.**
In-situ chemical sensors for detecting and exploring ocean floor hydrothermal vents. Report of a workshop. Nov 1988. 75p. NTIS NO. PB89-156 624.

WHOI

- 88-54 Hammer, T. R., P. L. Sachs and M. P. Bacon.**
A modified wire clamp system for thirty-liter Niskin bottles. Nov 1988. 14p. NTIS NO. PB89-204 622/AS.

WHOI

- 88-55 Broadus, James M., Porter Hoagland, III and Hauke L. Kite-Powell.**
Determining the structure of the United States marine instrumentation industry and its position in the world industry. Nov 1988. 199p. NTIS NO. PB89-200 869/AS.

WHOI

- 88-56 DeLonga, David M.**
A control system design technique for nonlinear discrete time systems. Ph.D. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Nov 1988. 239p. NTIS NO. AD-A203 687.

WHOI

- 88-57 Barles, Jennifer, Lawrence Pratt, Peter Cornillon and Jean-Francois Cayula.**
A compilation of digitized satellite imagery of the Gulf Stream (1982, 1983, and 1985). Nov 1988. 111p. NTIS NO. AD-A210 243.

WHOI

- 88-58 Clay, Peter R. and Melbourne G. Briscoe.**
Real-Time Environmental Arctic Monitoring (R-Team) deployment cruise. Dec 1988. 53p. NTIS NO. AD-A203 856.

WHOI

- 88-59 Luyten, James R. and Henry M. Stommel.**
Exploring the North Atlantic Ocean on floppy disks. Dec 1988. 67p. plus (4) floppy disks. NTIS NO. AD-A205 733.

WHOI

- 88-60 DiPietro, David M.**
Development of an actively compliant underwater manipulator. S.M. Thesis. MIT/WHOI Joint Program in Oceanography and Oceanographic Engineering. Dec 1988. 100p.

WHOI

- 88-61 Hosom, David S., Clifford L. Winget, Sumner Weismann, Donald P. Doucet and James F. Price.**
Intelligent chilled mirror humidity sensor. Dec 1988. 85p. NTIS NO. AD-A205 135.

WHOI

- 88-62 Chapman, Robert J. and Richard E. Galat.**
Cooling the waters of the 17-meter flume at the Coastal Research Laboratory. Dec 1988. 20p. NTIS NO. PB89-203 996/AS.

WHOI

- 88-63 Pennington, Nancy J., Robert A. Weller and Kenneth H. Brink.**
Frontal Air-Sea Interaction Experiment (FASINEX) January-June 1986 FASINEX moored current meter array data report. WHOI meteorologically instrumented surface moorings (F2-845, F4-846, F6-847, F8-848, F10-849) WHOI long term subsurface moorings. (F1-829, F12-830). Dec 1988. 292p. NTIS NO. AD-A209 604.

DEPARTMENT INDEX

Administration

88- 1, 88-14

Applied Ocean Physics and Engineering

88- 4, 88-11, 88-12, 88-17, 88-19, 88-29, 88-32, 88-33,
88-36, 88-37, 88-38, 88-39, 88-47, 88-49, 88-52, 88-56,
88-58, 88-60, 88-62

Biology

88- 2, 88-18, 88-24, 88-34, 88-50

Chemistry

88- 8, 88-22, 88-26, 88-28, 88-31, 88-54

Geology and Geophysics

88- 3, 88-21, 88-25, 88-27, 88-35, 88-53

Geophysical Fluid Dynamics

88-16

Marine Policy Center

88- 5, 88- 6, 88-55

Physical Oceanography

88- 7, 88- 9, 88-10, 88-13, 88-15, 88-20, 88-23, 88-30,
88-40, 88-41, 88-42, 88-43, 88-44, 88-45, 88-46, 88-48,
88-51, 88-57, 88-59, 88-61, 88-63

AUTHOR INDEX

Algan, Oya	88-35
Armi, L.	88-43
Asper, Vernon	88-35
Bacon, M. P.	88-54
Ball, L. A.	88-31
Barbour, R. L.	88- 7, 88-42
Beardsley, Robert C.	88-20
Benli, Huseyin	88-35
Bennett, Sara L.	88-51
Benoit, Gaboury	88-26
Berry, Mary Evans, Editor	88-16
Berteaux, H.	88-32
Bilgic, Tayfun	88-35
Bird, James E.	88- 2
Bocconcilli, A.	88-32
Brigham, Lawson W., Editor	88- 5
Brink, Kenneth H.	88-63
Briscoe, M.	88-15
Briscoe, Melbourne G.	88-58
Broadus, James M.	88-55
Broda, James	88-35
Bryden, Harry L.	88-30
Bullister, J. L.	88- 7
Campbell, Jeffrey W.	88-40
Casey, Kevin D.	88-19
Casso, Susan A.	88- 8
Catipovic, Josko A.	88-17
Cayula, Jean-Francois	88-57
Chapman, Robert J.	88-62
Choi, Joon Won	88-50
Clarke, William R.	88- 8
Clay, Peter R.	88-58
Cornillon, Peter	88-57
DeLonga, David M.	88-56
Dean, Jerome P.	88-20
Dean, Walter	88-35
Degans, Egon T.	88-35
Denton, E.	88-15
Derman, A. Sami	88-35
DiPietro, David M.	88-60
Diebel, Carol E.	88-24
Doucet, Donald P.	88-61
Duman, Muhammed	88-35
Dunworth, J. A.	88- 7, 88-42
Earles, Jennifer	88-57
Ebinger, Cynthia J.	88-27
Freise, Clarke B.	88-45
Frye, D.	88-15
Gagnon, Alan	88-35
Galat, Richard E.	88-62
Gately, Ellen M., Editor	88- 5
Goud, Margaret Redding	88- 4

Gould, M.	88-32
Gray, Elisabeth S.	88-34
Hammer, T. R.	88-54
Hay, B. J.	88-35
Hennet, Remy J-C., Editor	88-53
Hering, Janet G.	88-22
Hoagland, Porter, III	88-55
Holderied, Kristine	88-44
Honjo, S.	88-35
Hosom, David S.	88-61
Hunt, M.	88-15
Izdar, Erol	88-35
Jaffe, Jules S.	88-33
Jasper, John P.	88-28
Jemsek, John P.	88-25
Joyce, T. M.	88- 7, 88-42
Kaminski, Michael A.	88- 3
Kery, S.	88-32
Kinder, Thomas H.	88-30
Kite-Powell, Hauke	88- 6
Kite-Powell, Hauke L.	88-55
Knapp, George P.	88-41
Lawrence, Wendy B.	88-36
Liebezeit , Gerd	88-35
Little, Sarah A.	88-21
Livingston, Hugh D.	88- 8
Luyten, James R.	88-59
Malkus, William V. R.	88-16
Merab, Andre A.	88-12
Montgomery, E.	88-15
Montgomery, Ellyn T.	88-52
Moore, Karen E.	88- 2
Nicholson, John W.	88-38
Palmieri, Julianne M.	88- 8
Payne, R.	88-15
Pennington, Nancy J.	88-63
Polvani, Lorenzo M.	88-48
Ponte, Rui Vasques de Melo	88- 9
Pratt, Lawrence	88-57
Price, J.	88-43
Price, James F.	88-61
Putnam, Susan S., Compiler	88- 1
Richardson, P.	88-43
Rowe, Elizabeth Anne	88-37
Sachs, P. L.	88-54
Sayles, F. L.	88-31
Schubert, D. M.	88-42
Segal, Mordechai	88-29
Speer, Kevin G.	88-23
Stalcup, M. C.	88- 7, 88-42
Stommel, Henry M.	88-59
Suprenant, Lolita D.	88- 8
Tricca, Alice I., Editor	88-14
Tyack, Peter	88- 2
Tziperman, Eli	88-13

Valdes, J.	88-43
Vaughn, Gregory M.	88-39
Vengayil, Padmaraj	88-49
Vennell, M. Ross	88-46
Wacongne, Sophie	88-10
Watkins, William A.	88- 2
Weinstein, Ehud	88-29
Weismann, Sumner	88-61
Weller, Robert A.	88-63
Wengrovitz, Michael S.	88-11
Whelan, Jean K., Editor	88-53
Wilkin, John L.	88-47
Willey, Joanne M.	88-18
Winget, Clifford L.	88-61
Woodward, Bonnie L.	88-35
Zemanovic, M.	88-43

FUNDING AGENCIES

Andrew A. Mellon Foundation
88-28

Charles Stark Draper Laboratory
88-17

EPA
88-34, 88-34

John D. and Catherine T. MacArthur Foundation
88- 5

Lerner-Gray Fund for Marine Research of the American
Museum of Natural History
88-24

Marine Imaging Systems
88-38

Marine Mammal Commission
88- 2

Massachusetts Centers of Excellence Corporation
88- 6

Massachusetts Commonwealth Center for Excellence
88-38

Mellon Joint Initiative Award to 'The WHOI Friends of
Vents'
88-53

NASA, Ocean Processes Branch
88-42

NOAA, National Ocean Service, Office of Marine
Operations, through Massachusetts Centers of Excellence
Corporation
88-55

NOAA, National Sea Grant College Program Office
88-21, 88-49

NOAA, National Sea Grant Program to the WHOI Sea Grant
Program
88-53

NOAA, through MIT
88-22

NRL

88-56

NSF

88- 3, 88- 4, 88- 7, 88- 7, 88- 8, 88- 9, 88-10, 88-10,
88-13, 88-13, 88-16, 88-18, 88-20, 88-20, 88-21, 88-23,
88-23, 88-25, 88-25, 88-27, 88-28, 88-34, 88-35, 88-35,
88-41, 88-43, 88-43, 88-47, 88-47, 88-50, 88-50, 88-54,
88-56, 88-57, 88-57, 88-59, 88-61

NSF, through MIT

88-22, 88-46

National Institutes of Health

88-34

National Marine Fisheries Services

88- 2

Naval Air Systems Command

88-29

None cited

88-36

ONR

88- 4, 88-11, 88-12, 88-16, 88-21, 88-30, 88-30, 88-30,
88-32, 88-33, 88-45, 88-45, 88-48, 88-51, 88-51, 88-51,
88-52, 88-56, 88-56, 88-57, 88-58, 88-58, 88-59, 88-60,
88-60, 88-60, 88-61, 88-63

ONR, Research Fellowship Program through MIT

88-19

ONR, University Research Initiative Program

88-15

ONR, through MIT

88-17, 88-22

Sea Grant

88-27

Texas A and M University, U.S. Scientific Program

88- 3

U.S. Department of Energy

88-54

U.S. Dept. of the Interior, Minerals Management
Service

88-62

U.S.G.S., through MIT

88-26

United States Navy

88-38, 88-39, 88-40, 88-44, 88-45

WHOI Coastal Research Center

88-62

WHOI Marine Policy Center

88- 6

WHOI/MIT Joint Program Ocean Ventures Fund

88-23

BIBLIOGRAPHIES OF TECHNICAL REPORTS

WHOI REF.	TITLE	NTIS ORDER NUMBER
81- 9	Bibliography of Reports, 1980	PB81-185167
82-14	Bibliography of Reports, 1981	PB81-237579
83- 2	Bibliography of Reports, 1982	PB83-191064
84- 1	Bibliography of Reports, 1983	PB84-173798
85- 2	Bibliography of Reports, 1984	PB85-201747
86- 4	Bibliography of Reports, 1985	PB86-214756/AS
87- 5	Bibliography of Reports, 1986	PB87-200226/LL
88- 1	Bibliography of Reports, 1987	PB88-201942/AS

SUMMARIES

WHOI REF.	TITLE
81-36	Abstracts of papers submitted in 1980 for publication
82- 9	Abstracts of papers submitted in 1981 for publication
83- 3	Abstracts of papers submitted in 1982 for publication
84-11	Abstracts of papers submitted in 1983 for publication
85- 9	Abstracts of papers submitted in 1984 for publication
86- 2	Abstracts of papers submitted in 1985 for publication
87- 6	Abstracts of papers submitted in 1986 for publication
88-14	Abstracts of papers submitted in 1987 for publication

GEOPHYSICAL FLUID DYNAMICS

WHOI REF.	TITLE	NTIS ORDER NUMBER
81-102	Physics of convection.	AD-A114 366/8
82-45	Particle motions in fluids.	AD-A122 864
83-41	Baroclinic instability and ocean fronts.	AD-A166 898
84-44	Dynamic differentiations.	AD-A149 386/5/XAB
85-36	Chaos.	AD-A164 601
86-45	Order and disorder in turbulent shear flow.	AD-A177 571/7/XAB
88-16	Order and disorder in planetary dynamos.	AD-A196 554
89-26	The influence of convection on large-scale circulations.	

DOCUMENT LIBRARY

July 5, 1989

Distribution List for Technical Report Exchange

Attn: Stella Sanchez-Wade
Documents Section
Scripps Institution of Oceanography
Library, Mail Code C-075C
La Jolla, CA 92093

Hancock Library of Biology &
Oceanography
Alan Hancock Laboratory
University of Southern California
University Park
Los Angeles, CA 90089-0371

Gifts & Exchanges
Library
Bedford Institute of Oceanography
P.O. Box 1006
Dartmouth, NS, B2Y 4A2, CANADA

Office of the International
Ice Patrol
c/o Coast Guard R & D Center
Avery Point
Groton, CT 06340

Library
Physical Oceanographic Laboratory
Nova University
8000 N. Ocean Drive
Dania, FL 33304

NOAA/NESDIS Miami Library Center
4301 Rickenbacker Causeway
Miami, FL 33149

Library
Skidaway Institute of Oceanography
P.O. Box 13687
Savannah, GA 31416

Institute of Geophysics
University of Hawaii
Library Room 252
2525 Correa Road
Honolulu, HI 96822

Library
Chesapeake Bay Institute
4800 Atwell Road
Shady Side, MD 20876

MIT Libraries
Serial Journal Room 14E-210
Cambridge, MA 02139

Director, Ralph M. Parsons Laboratory
Room 48-311
MIT
Cambridge, MA 02139

Marine Resources Information Center
Building E38-320
MIT
Cambridge, MA 02139

Library
Lamont-Doherty Geological
Observatory
Colombia University
Palisades, NY 10964

Library
Serials Department
Oregon State University
Corvallis, OR 97331

Pell Marine Science Library
University of Rhode Island
Narragansett Bay Campus
Narragansett, RI 02882

Working Collection
Texas A&M University
Dept. of Oceanography
College Station, TX 77843

Library
Virginia Institute of Marine Science
Gloucester Point, VA 23062

Fisheries-Oceanography Library
151 Oceanography Teaching Bldg.
University of Washington
Seattle, WA 98195

Library
R.S.M.A.S.
University of Miami
4600 Rickenbacker Causeway
Miami, FL 33149

Maury Oceanographic Library
Naval Oceanographic Office
Stennis Space Center
NSTL, MS 39522-5001

Marine Sciences Collection
Mayaguez Campus Library
University of Puerto Rico
Mayaguez, Puerto Rico 00708

REPORT DOCUMENTATION PAGE	1. REPORT NO. WHOI-89-43	2.	3. Recipient's Accession No.
4. Title and Subtitle Bibliography of Technical Reports 1988			5. Report Date October, 1989
			6.
7. Author(s) Compiled by Susan S. Putnam			8. Performing Organization Rept. No. WHOI-89-43
9. Performing Organization Name and Address The Woods Hole Oceanographic Institution Woods Hole, Massachusetts 02543			10. Project/Task/Work Unit No.
			11. Contract(C) or Grant(G) No. (C) (G)
12. Sponsoring Organization Name and Address Woods Hole Oceanographic Institution			13. Type of Report & Period Covered Technical Report
			14.
15. Supplementary Notes This report should be cited as: Woods Hole Oceanog. Inst. Tech. Rept., WHOI-89-43,			
16. Abstract (Limit: 200 words) The technical reports prepared by the Woods Hole Oceanographic Institution in 1988 are listed in this bibliography. Inquiries about availability of extra copies will be handled on an individual basis. Initial distribution of the reports is controlled by the funding agencies. Reports are available through the: National Technical Information Service NTIS Order Desk 5285 Port Royal Road Springfield, VA 22161 NTIS order numbers are included with each report listed or can be obtained through the Document Library. The Document Library provides Interlibrary Loan service for all Institution reports and will assist with problems of identification.			
17. Document Analysis a. Descriptors			
b. Identifiers/Open-Ended Terms			
c. COSATI Field/Group			
18. Availability Statement Approved for publication; distribution unlimited.		19. Security Class (This Report) UNCLASSIFIED	21. No. of Pages 18
		20. Security Class (This Page)	22. Price